ACCESSION NR: AP4040960

magnetic spire moment of the unpaired electron. An additional superfine structure composed of five lines manifested itself in the EPR spectra for compounds II, IV and V of the Figure of Enclosure Ol. The possibility of disrupting the molecular coplanarity is the greatest with these compounds. The additional superfine structure did not appear in the EPR spectra for compounds I and III. The assumption could be made that this is associated with the ability of chelates I and III, as the more coplanar, to form associates. Actually, the formation of associates could lead to the elimination of the additional superfine structure owing to the origination of a dipole spin-spin interaction. The presence of the additional hyperfine structure in the II, IV and V compounds and its absence in the I and III compounds can only be explained by the peculiarities of the molecular structure, especially by the intensive disruption of their coplanarity through the introduction of the CH3 group instead of the aldehyde group's hydrogen atom. Disruption of the coplanarity produces an essential influence on the distribution of the electron density of the unpaired electron in the molecule. Authors conclude that one and the same structural pecularities of the investigated copper chelate compounds, associated with disruption of the molecular coplanarity under the effects of steric factors produce a change in the compound's optical activity and EPR spectra. "Authors thank N. V. Vereyna and N. A. Begunova for their help in conducting the experiment." Orig. art. has: 3 figures. 2/4

			******		•			·		
ACCESSION	NR: AP4040	960								_ •
SUBMITTED:	17Mar64			()			•	ENCL:	01	+ 1
SUB CODE:	OP, IC	٠,		NO REF	SOV: O	07		OTHER:	002	•
SSOCIATION	: Fiziko-k	himiche	skiy ir	nstitut in	. L. Ya.	Karpova	(Physi	co-chemical		
mstitute);	Moskovskiy	GOSTICA	raicaeur	niversite	t Lomo	nosova (MOBCOW	State. Unive	rsity)	
	·						•			
										. •
	•	u n			n					••
		п л			п					
		н л			л			187		
	,	н л			л		e e	·		
		в п			n			**		
		n . n			л					

SHIGORIN. D.N.; PISKUNOV, A.K.; OZEROVA, G.A.; SHCHEGLOVA, N.A.; VEREYN, N.V.

Role of the H-bonding in the processes by which radicals are formed as a result of the deactivation of the excited electronic states of molecules. Dokl. AN SSSR 158 no.22432-435 S 164.

(MIRA 17:10)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno akademikom S.S.Medvedevym.

RODIONOV, A.N.; TALALAYEVA, T.V.; SHIGORIN, D.N.; RODIONOVA, G.N.; KOCHESHKOV, K.A.

Infrared spectra of isotope-substituted ethyllithium molecules.

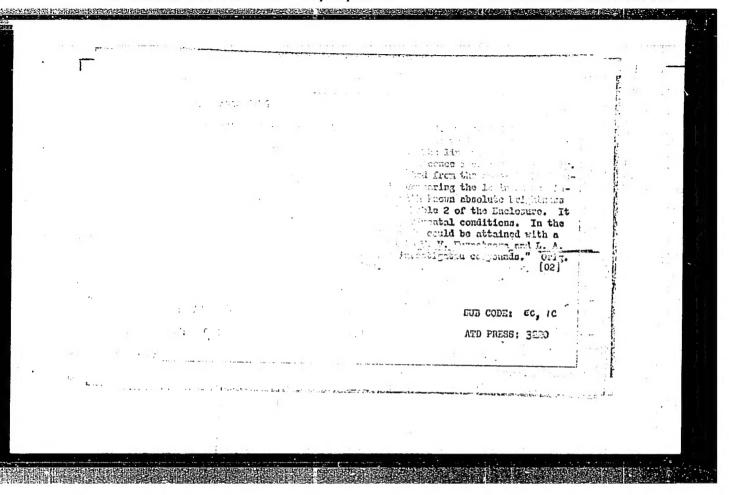
Izv. AN SSSR. Ser. khim. no.4:604-610 '65. (MIRA 18:5)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova.

APPROVED FOR RELEASE. 06/25/2000 CIA-RDP80-00515R001549410019-7	
中的人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是 第一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也是一个人,我们也	
7-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(J)/EWP(t)/EWP(t)/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(J)/EWP(t)/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(J)/EWP(t)/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(J)/EWP(t)/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(J)/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(J)/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWA 17-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWA 17-65 EPA(s)-2/EWT(m)/EPF(n)-2/EPR/EWA 17-65 EPA(s)-2/EWT(m)/EPF(n)-2/EPR/EWA 17-65 EPA(s)-4/Pt-10/Pu-4 EPA(s)-2/EPR/EWA 17-65 EPA(s)-4/Pt-10/Pu-4 EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/EPA(s)-2/E	
EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EMP(J)/EWZ/0046 [JP(c)/RPL JD/WW/JG/RM S/0062/65/000/001/0042/0046	
(EPF(C)/EPF(L) TD/WW/JG/RM	B
EDA(S)-2/EWI("/ TIP(C)/RPL S/0062/63/	
7-65 Pt / Dt -10/Pu-4 101/19	
The 4/P6-4/P6-1/P6-1/P6-1/P6-1/P6-1/P6-1/P6-1/P6-1	
Pc-4/Pr-4/P6-4/Pt-10/Pu-4 IJP(c)/RPL JD/WW/JG/RM S/0062/65/000/001/0042/0046 CCESSION NR: AP5006412 AUTHOR: Rodionov, A. N.; Timifeyuk, G. V.; Talalayeva, T. V.; Shigorin, D. N.; John Shkov, K. A.	.,
AUTHOR: Rodionov, A. N.; Timifeyuk, G. V.; Talalayer, Kocheshkov, K. A. Kocheshkov, K. A. TITLE: Infrared spectra of certain acetylenides of lithium, sodium, and potassium Kocheshkov, K. A. TITLE: Infrared spectra of certain acetylenides of lithium, sodium, and potassium Kocheshkov, K. A. TITLE: Infrared spectra of certain acetylenides of lithium, sodium, and potassium Kocheshkov, K. A. TITLE: Infrared spectra of certain acetylenides of lithium, sodium, and potassium Kocheshkov, K. A.	î.
A N.; Timireyary	٠, ٠
Rodionov, Sodium,	>
AUTHOR: Kocheshkov, K. A. Kocheshkov, K. A.	
Kocies	
spectra of the no. 1, 1903,	
khimicheskaya,	
Turactiva. Serlya	
- ACCU 1210- I I I I I I I I I I I I I I I I I I I	
Kocheshkov, K. A. Kocheshkov, K	
Attilli citati DO Commission in the Commission of the Commissi	
TOPIC TAGS: Specium compounds and aromatic and aromatic	
and all phatic touble-beam filles camples were	1
compound with a down man arenared	3
The infrared special were measure 4000 to 4001 and were	
ABSTRACT: and potassium and ker liverinated character	
TOPIC TAGS: spectrum analysis, acetylene, acetylene compound Topic tags: spectrum analysis, acetylene, acetylene Topic tags: spectrum analysis, acetylene, acetylene Topic tags: spectrum analysis, acetylene, acetylene The infrared spectra of certain alliphatic and aromatic acetylene had been acetylene Topic tags: spectrum analysis, acetylene, acetylene Topic tags: spectrum analysis, acetylene Topic tags: spectrum analysis, acetylene, acetylene Topic tags: spectrum analysis Topic tags: spec	1
	-1.6"
ABSTRACT: The infrared spectra were measured with 4000 to 4000 cm ils and were prepared in thium, sodium, and potassium were measured with 4000 to 4000 cm ils and were prepared in thium, sodium, and potassium were measured with 4000 to 4000 cm ils and were prepared in thium, sodium, and potassium were measured with 4000 to 4000 cm in this case of compounds to the form of a suspension in vaseline and fluorinated indicated character—trometer with prisms of a suspension in vaseline and in this class of compounds taken in the form of a suspension. The groups found in this class of compounds in an atmosphere of dry argon. The groups found in this class of compounds in an atmosphere of dry argon. The groups found in this class of compounds in an atmosphere of dry argon. The groups found in this class of compounds in an atmosphere of dry argon. The groups found in this class of compounds in an atmosphere of dry argon. The groups found in this class of compounds in an atmosphere of dry argon. The groups found in this class of compounds in an atmosphere of dry argon. The groups found in this class of compounds in an atmosphere of dry argon. The groups found in this class of compounds in an atmosphere of dry argon. The groups found in this class of compounds in a third class of compounds in a third class of compounds.	
ABSTRACI. 1ithium, sodium, and potation, NaCl, and Kink 1ithium, sodium, and potation in vaseline and fluorinated indicated character with prisms of Lif, NaCl, and Kink 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated indicated character 1ithium, sodium, and potation in vaseline and fluorinated character obtained indicated character 1ithium, sodium, and suspension in vaseline and fluorinated character obtained in discussion of compounds 1ithium, sodium, and suspension in vaseline and fluorinated character obtained in the class of compounds 1ithium, sodium, and fluorinated sharper of character obtained in the scalars of compounds 1ithium, sodium, and suspension in the suspension of the suspen	
G H = C-H(D), C=C, instinct that of the to include the frequency of the	1
halide derivate the long wavelen oscillation its	1
and its the direction of A shift of the	2
cm in these groups.	
actions of these	
in an atmosphere is to comparison the CEC groups is to oscillation frequencies of the EC-H and the CEC groups is to contain the CEC-H, EC-H(D), CEC, EC-C, EC-H, EC-Li). In comparison the CEC groups is to comparison the CEC groups is the cell of the EC-H and the CEC groups is the cell of the EC-H and the CEC groups is the cell of the second of the long waves, due to intra- and intermolecular in	
Card 1/2	
Can-	
	٠.

Lu40777-65 ALCESSION NR: AP50064	12			
alkine group occurred SSOCIATION: Fiziko-k Institute)	in the order Li	i+Na→K. Orig. art.	has: 1 table, 1 f	igure.
OBMITTED: 01Mar63		ENCL: 00		
O REF SOV: 002	in the second second	OTHER: 004	SUB CODE: ()C, 02
•				
		`		
BAS d 2/2				

light pulses and could be obtained were various mixtures and pure subscribed. The solvents were various mixtures and luminescence in glasslike matrices at low temperatures. The absorption and luminescence could be considered as a solvent of the country of the c		TITIE: Investigation of stimulated emission in solutions of rare-earth chelates COURCE: Optika i spektroskopiya, v. 18, no. 3, 1965, 526-529 TOPIC TAGS: rare carth compound, chelate, atimulated emission, laser action, laser material To check on the feasibility of using rare-earth chelates for stimulated emission, the authors investigated frozen solutions of the Eu-, To-, and Sm-dibenavylation, the authors investigated frozen solutions of the Eu-, To-, and Sm-dibenavylation, Eu- and To-benzoylacetonate (BA), Eu-(chtylenediamine-salicylaldehyde) heethene (EBM), Eu- and Sm-nitrosalicylaldehyde, a Eu- and Sm-pieric said, Eu-, To-, and Sm-(LEMA), Eu- and Sm-nitrosalicylaldehyde, a Eu- and Sm-pieric said, Eu-, To-, and Sm-compounds withstood the action of strong complexes. Only the first six of these compounds withstood the action of strong complexes only the first six of these compounds withstood the action of strong complexes and could be obtained in solution of required concentration (* 10-2 light pulses and could be obtained in solution of required concentration (* 10-2 light pulses and could be obtained in solution mixtures and pure substances form-
Cord 1/1/2	;	trole/litter/.
The state of the s		Court 1/2)
	-	Luis Alla
	5 m	The state of the s



SHABLYGIN, M.V.; EBRICKER, F.L.; Wideavier, E.V.

Spectroscopic study in the lactar series. View. grakl. spekt.
3 no.1:56-24. JR 165.

(MEM 18:9)

GASTILOVICH, Ye.A.; SHIGORIN, D.N.; KOMAROV, N.V.; YAROSH, O.G.

Electro-optical parameters of the C-Ge, C-H, C-Si bonds of certain acetylene derivatives consisting of one or several acetylene groups. Opt. i spektr. 19 no.2:287-289 Ag '65. (MIRA 18:8)

L 48987-67 EWP(1)/EWT(E)/T PM ACCESSION N. AP5011474 UR/0076/65/039/004/1002/1006 AUTHOR: Terent yev, A. P.; Rukhadze, Ye. G.; Panova, G. V.; Shigorin, D. N. Infrared spectra of optically active chelates of copper and nickel with hydroxyaldimines and hydroxyketimines SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 4, 1965, 1002-1006. infrared spectrum, copper chelate, nickel chelate, optical activity, TOPIC TAGS: hydroxyaldimine, hydroxyketimine, steric hindrance ABSTRACT: The paper continues a study of optically active chelates containing the chelate unit A: X = H.CH Me = Cu,Ni Card

L 48987-65

ACCESSION NR: AP5011474

3

The IR spectra were recorded with a Hilger spectrometer using KBr pellets. The results, which are fully tabulated, show that an increase in steric hindrance in the molecules (associated with the substitution of X=CH₃ for X=H) causes a decrease in the frequency of the stretching vibrations of the C=N group included in the quasi-aromatic ring. A comparison of compounds with the same steric factor indicates that with a decrease in the order of the C=C bond, on which the metal ring is built, the vibrational frequency of the C=N group increases. Bands which characterize the deformation vibrations of C-H and the vibrations of C=N groups are located in the range of 1430-1470 cm⁻¹. The frequencies of 1430-1385 cm⁻¹ and 1370-1356 cm⁻¹ characterize plane deformation vibrations of CH₃ and CH₂ groups. Bands at 1195-1190 cm⁻¹ correspond to plane deformation vibrations of C-H groups. Frequencies of 770-800 cm⁻¹ correspond to nonplanar vibrations of the C-H groups. In the range below 670 cm⁻¹ are located frequencies characterizing the deformation vibrations of the chelate unit and the stretching vibrations of Me-O and Me-N. Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University); Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemi-

cal Institute)

SUEMITTED: 13May64 NO REF SOV: 004

Card 2/2 11/6

ENCL: 00

SUB CODE: OC. OP

OTHER: 005

PLOTNIKOV, V.G.; SHIGORIN, P.N.

Role of the $n \to \mathcal{J}$ -promotion in the generation of radicals. Dokl. AN SSSR 160 no.1:166-169 Ja '65.

(MIRA 18:2)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova i Sibirskiy fiziko-tekhnicheskiy institut im. V.D. Kuznetsova. Submitted August 18, 1964.

SHAPET'KO, N.N.; SHIGORIN, D.N.; SKOLDINOV, A.P.; RYABCHIKOVA, T.S.; RESHETOVA, L.N.

Chemical shifts of nuclear magnetic resonance of protons and infrared frequencies of compounds with strong intramolecular hydrogen bond of the type 0 - H...O. Zhur. strukt. khim. 6 no.1:155-157 Ja-F *65. (MIRA 18:12)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova. Submitted August 10, 1964.

KOZINA, M.P.; SHIGOPIN, D.N.; SKOLDINOV, A.P.; SKURATOV, S.M.

Thermochemical determination of the stabilization energy for a quasiaromatic ring with an H-bond. Dokl. AN SSSR 160 no.5:1114-1116 F '65. (MIRA 18:2)

1. Moskovskiy gosudaratvennyy universitet i Fiziko-khimicheskiy institut im. L.Ya. Karpova. Submitted August 18, 1964.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001549410019-7

DOT(1)/DOT(m)/EPF(c)/EPA(w)-2/EWP(1)/T/EWA(m)-2 Pc-L/Pab-10/ Id.(c) UR/0020/65/161/002/0406/0409 ACCESSION NR: AP5010172 Shigorin, D. N.; Medvedev, S. S.; Potapov, V. K. AUTHOR: TITLE: Role of u-mix transitions in the processes of the ionization and decomposition of compounds SOURCE: AN SSSR. Doklady, v. 161, no. 2, 1965, 406-409 TOPIC TAGS: electron transition, ionization curve, anthraquinone molecule, fluorenone molecule, cation radical, mass spectrographic analysis, carbonyl group, chromophoric group /MKh-1303 mass spectrometer, A ABSTRACT: With the aim of elucidating the role of what transitions in the processes of the ionization and decomposition of molecules, the author investigated the ionization curves and occurrence potentials of ions of anthraquinone and fluorenone by the electron shock method. The investigations were performed with the aid of a MEh-1303 high-resolution chemical massspectrometer adapted to measuring the ionization potentials of molecules by the electron quasimonokinetization method. The first ionization potentials of the molecules of anthraquinone and fluorenone correspond to the energies of Card 1/3

L 53757-65

Card 2/3

ACCESSION NR: AP5010172

0

separation of electrons from an undivided pair of oxygen atoms, while the second potentials correspond to the separation energies of n-electrons. This conclusion is in agreement with the fact that the first longwave band of the absorption spectrum of the anthraquinone molecule corresponds to the u mt electron transition and the second band, to the man's electron transition. For fluorenone the yield of ions formed by the separation of the n-electron from a pair of oxygen electrons is 2-3 times smaller than for anthraquinone. This may be related to the difference in their ionization potentials ($I_{\pi}-I_{n}$) and the number of π electrons of the investigated molecules per chromophoric group. The principal processes of the decomposition of anthraquinone molecules, as indicated by massspectrographic analysis, are the processes of the isolation of neutral CO groups from the molecules and formation of C6H4COC6H4+ and C6H4C6H4 ions. Their occurrence potentials, as well as the occurrence potentials of the C.H.C.H. ton from fluorenone, are tabulated. It is assumed that during the decomposition of the anthraquinone molecule and absorption of an energy of 10.39 ew by that molecule a single CO group is released. In the event of the absorption of an energy of 11.02 ev, two carbonyl groups are successively split off that molecule. One group is released by fluorenone at 10.14 ey. In both cases there form ions of

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001549410019-7

L 53757-65

ACCESSION NR: AP5010172

an identical structure corresponding to the cation-radical of o-diphenylene. This may account, e.g., for the mechanism of the decomposition of alcohols. The molecules of these compounds, when in specified states, decompose as a result of the exchange interaction between the unpaired electrons of the oxygen atom and the electron of the adjacent carbon atom, which leads to the formation of a new bond/between carbon and oxygen and the disruption of the C-H or C-C bond and the concomitant formation of the corresponding radicals R-CH-OH and cations R-HC = O-H. Orig. art. has: 5 figures, 1 table.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (L. Ya. Karpov Physicochemical Institute)

SUBMITTED: 31Aug64

ENC: 00

SUB CODE: OC, GC

NO REF SOV: 008

OTHER: 003

Card 3/3

KOZLOV, Yu.I.; SHIGORIN, D.N.

Two-quantum photochemical processes in frozen solutions of triphenylmethane compounds. Dokl. AN SSSR 161 no.4:871-874 Ap '65. (MIRA 18:5)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Submitted October 3, 1964.

KHOMEKIY, D.I.; SHIGORIN, D.H.

Mechanism of the generation of radicals during the excitation of systems with intermolecular hydrogen bonding. Zhur. fiz. khim. 39 no.8:2053-2055 Ag *65. (MIRA 18:9)

1. Moskovskiy fiziko-khimicheskiy institut imeni Karpova.

SHCHEGLOVA, N.A.; SHIGORIN, D.N.; GORELIK, M.V.

Electronic spectra of aromatic α -diketones. Zhur. fiz. khim. 39 no.4:893-901 Ap '65. (MIRA 19:1)

1. Fiziko-khimicheskiy institut imeni Karpova. Submitted Nov. 11, 1963.

PLOTNIKOV, V.G.; DANILOVA, W.I.; SHIGORIN, D.N.; TERPUGOVA, A.F.; ZUBKOVA, L.B.; FILIPPOVA, L.G.

Theoretical study of the spectral behavior of systems with a quasi-aromatic cycle. Zhur. fiz. khim. 39 no.9:2311-2312 (MIRA 18:10)

1. Institut neorganichesloj khimii Sibirskogo otdeleniya AN SSSR.

FLOTNIKOV, V.G.; SHIGORIN, D.N.

Role of $\overline{\mathcal{M}}$ -sleetrons in the formation of hydrogen bonding. Zhur, fiz, khim. 39 no.10:2608-2611 0 165.

(MIRA 18:12)

1. Flaike-khimicheskiy institut imani Karpova, Moskva i Sibirskiy fiziko-takhnicheskiy institut imani Kuznetsova. Submitted September 10, 1964.

POPOVA, Ye.G.; SHIGORIN, D.N.; SHAPET'KO, N.N.; SKOLDINOV, A.P.; GOL'IER, G.A.

Symmetry of quasi aromatic ringe. Zhur.fiz.khim. 39 nc.ll:2726—
(MIRA 18:12)

1. Moskovskiy fiziko-khimicheskiy institut imeni L.Ya.Karpova.

RM EWP(j)/EWT(m) L 16132-66

ACC NR: AP6004184

SOURCE CODE: UR/0076/66/040/001/0200/0203

AUTHOR: Potapov, V.K.; Shigorin, D.N.

ORG: Physicochemical Scientific Research Institute im. L. Ya. Karpov, Moscow

(Nauchno-issledovatel'skiy fiziko-khimicheskiy institut)

TITLE: Relationship between the nature of electronic states of acetone molecules and the mechanism of their dissociation under electron impact

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 1, 1966, 200-203

TOPIC TAGS: acetone, excited electron state, ionization potential, free radical, ion, mass spectrometry, ionization

ABSTRACT: To elucidate the mechanism of dissociation of acetone molecules as a function of their electronic states, curves of the ionization and dissociation of these molecules were studied by the electron impact method. Measurements were made with an MKh-1303 chemical mass spectrometer. The first ionization potential of acetone In, corresponding to the detachment of the n-electron of the hetero atom (oxygen) of the chromophoric group

Card 1/2

UDC: 541.6

L 16132-66

ACC NR: AP6004184

with formation of a cation radical, is equal to 10.03 eV, with yield W=1.0. The second and third ionization potentials coincide with the appearance energies of ions of mass 43. This means that the ionization of acetone involves the dissociation of the molecules into the CH_3CO^+ cation and CH_3 radical. Ionization processes at higher electron energies apparently correspond to processes of formation of ions and radicals in excited electronic states. The dissociation mechanism is also discussed in terms of the nature of the n, π^* and 4 formulas.

SUB CODE: 07,4/SUBM DATE: 24Dec64/ ORIG REF: 002/ OTH REF: 004

Card 2/2

SIMONOV, A.P.; SHIGORIN, D.N.; TSAREVA, G.V.; TALALAYEVA, T.V.; KOCHESHKOV, K.A.

Infrared absorption spectra and the structure of some simple lithium, sodium, and potassium alcoholates. Zhur. prikl. spekt. 3 no. 6:531-537 D '65 (MIRA 19:1)

1. Submitted August 18, 1964.

TORRING TYPE, A. :: RUKHADZE, Ye.G.; PANOVA, G.V.; SHIGORIN, D.N.

Infrared spectra of the optically active chelate compounds of copper and nickel with oxyaldimines and oxyketimines. Zhur. fiz. khim. 39 no.4:1802-1806 Ap 165. (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lemonosova i Fiziko-khimicheskiy institut imeni Karpova, Moskva. Submitted May 13, 1964.

L 36188-66 EWT(m)/EWP(j) RM/WW SCURCE CODE: UR/0076/56/040/003/0700/0763

AUTHOR: Kozlov, Yu. I.; Shigorin, D. N.; Ozerova, G. A.

ORG: Physicochemical Institute im. L. Ya Karpov (Fiziko-khimicheskiy institut)

TITLE: Sensitized photodecomposition of triphenylmethane compounds in the solid phase. Part 1: Photosensitization with aromatic amines

SCURCE: Zhurnal fizicheskoy khimii, v. 40, no. 3, 1966, 700-703

TOPIC TAGS: triphenylmethane, photosensitivity, free radical, amine

ABSTRACT: The photodecomposition of triphenylmethane compounds, sensitized with aromatic amines, was studied on binary mixtures of triphenylmethane and triphenylmethylcarbinol with triphenylamine, diethylaniline, leuco base of crystal violet, azobenzene, and acridine. Dilute solutions of these mixtures in heptane, isopentane, and ethanol were then frozen at 10-3 mm Hg and 77 % and irradiated with the 313 and and ethanol were then frozen at 10-3 mm Hg and 77 % and irradiated with the 313 and 334 mm mercury lines, corresponding to the long-wave absorption bands of the amines. The absorption and luminescence spectra and the ESR spectra of the radicals of the matrix were recorded. The addition of aromatic amines was thus found to initiate the formation of triphenylmethyl radicals. Ethanol inhibits the formation of PhyCorporation in the triphenylmethyl radicals. Ethanol inhibits the formation of the of the amine, which forms associates with the alcohol molecules. Sensitizers of the

UDC: 541.14

Card 1/2

L 36188-66 ACC NR: AP6010748 formation of Ph₂C° radicals are aromatic amines in the excited state, which detach hydrogen from the - C-H group of triphenylmethane compounds. Under the experimental conditions studied, naphthalene and acridine do not sensitize the photodecomposition of triphenylmethane compounds. Orig. art. has: 3 figures. SUB CODE: 07/ SUBM DATE: 27Mar65/ ORIG REF: 013/ OTH REF: 006

Card 2/2 INLP

1 36442-66 EWP(j)/EWT(1)/EWT(m) IJP(c) RM

的表现的形式的形式 2012年6月5岁的特别是国际的基础的基础的基础的特别的企业的连续的。这些的地位的通过的影响的影响。

ACC NR: AP6018075

SOURCE CODE: UR/0076/66/040/005/1154/1157

AUTHOR: Nurmukhametov, R. N.; Plotnikov, V. G.; Shigorin, D. N.

ORG: Physico-Chemical Institute im. L. Ya. Karpov (Fiziko-khimicheskoy institut)

TITLE: Nature of the electronically excited states and luminescence of molecules

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 5, 1966, 1154-1157

TOPIC TAGS: luminescence, UV spectrum, molecular structure, molecular spectroscopy, phosphorescence, excited state, absorption band

ABSTRACT: Electronically excited states and <u>luminescence</u> of hydrocarbon molecules of containing C = 0, C = S, C = N, N = N, and N = 0 groups and <u>conjugated double bonds</u> were studied. The UV spectra of several molecules were analyzed and various absorption and phosphoroscence bands were assigned to the following four basic types of singlet and triplet excitations: $S_{n,n}$, $T_{n,n}$, $S_{n,n}$, $T_{n,n}$. In general, the electronic excitations and luminescence were attributed to electron transitions of the n,n and n,n types. It is postulated that the singlet and triplet n,n and n,n excitations are characteristic of molecular structure. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 21Sep65/ ORIG REF: 018/ OTH REF: 010 UDC: 541.6+543.42

L 36957-66 EWT(m)/EWP(j) JW/RM SOURCE CODE: UR/0076/65/039/012/3118/3119 ACC NR AP6014901 36 Zhuravleva, T. S.; Shigorin, D. N. B AUTHOR: ORG: Moscow Physicochemical Institute im. L. Ya. Karpov (Moskovskiy fiziki-khimicheskiy institut) TITLE: Generation of the radicals of a matrix using aromatic ethynyl derivatives Zhurnel fizicheskoy khimii, v. 39, no. 12, 1965, 3118-3119 SOURCE: TOPIC TAGS: luminescence spectrum, radical concentration, ethynyl ABSTRACT: The article describes the use of electron paramagnetic resonance and the luminescence method to generate the radicals of a matrix at 77°K. The use of ethynyl derivatives as luminophores is interesting first of all because of the high reaction capacity of the C = C bonds, and also because of their ability to form W -complexes between themselves and with the molecules of other compounds. In the present work, the luminophores used were aromatic derivatives of ethynyls phenyl, ethylphenyl, diphenylacetylene (concentration of 10-1 to 10-4 gram-moles/liter in a standard matrix). The above luminophores were found to be luminescent under the conditions of the experiment (the UDC: Card 1/2

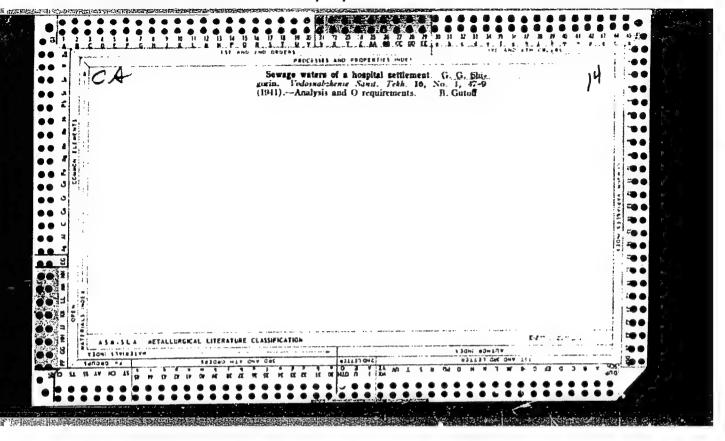
36957-66	- 0
ACC NR: AP6014901	
region of approximately 3900-4500 Å, \sim 2 sec); corresponding observations were made of their triplet electron paramagnetic raignal, with a g-factor approximately equal to 4. Orig. art. It	
SUB CODE: 07/ SUBM DATE: 26May65/ ORIG REF: 005/ OTH REF:	003
	•
2/2 411	
Card 2/2 11/2	

LITVIN, F.L.; PRINTSENTAL', S.G.; SHIGORIN, G.F.; KOLCHIN, N.I., professor, doktor tekhnicheskikh nauk, redaktor.

[Production of multiple-thread worm gears with new geometry]
Proizvodstvo mnogozakhodnykh cherviachnykh peredach s novoi
geometriei. Pod obshchei red. N.I.Kolchina. Leningrad, Gos.
nauchno-tekhn. izd-vo mashinostroit.i sudostroit. lit-ry [Leningradskoe otd-nie] 1953. 50 p. (Novatory proizvodstva)

(MLRA 7:3)

(Gearing, Worm) (Spiral milling)



SHIĞORIH, G. G.

Shigorin, G. G. and Gusev, L. M. "The production and use of gas from the settling of sewage", San. tekhnika (Nauch.-is-sledl.in-tkommunal. khoz-va Ispolkoma Lengorsoveta), Issue 1, 1949, p. 74-133.

SO: U-3261, 10 April 53, (Letopis 'shurnal 'nykh statey, No. 12, 1949)

SHIGORIN, G. G.

Shigorin, G. G. "A diagram for using the new sewage system of Leningrad for the removal and processing of domestic garbage," San. tekhnika (Nauch.-issled. in-t kommunal. khoz-va Ispolkoma Lengorsoveta), Issue 1, 1949, p. 134-58

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949)

SHIGORIN, G. G.

32679. Voprosy splave razmel chyennogo domovogo musora po kanalizatsonnym setyam. [Doklad na konferentsii, sozv. Nauch.-issled. In-tom kommunsl. Khozyaystva ispolkoma lengorsovata. May 1949 G. Materialy po kommunsl. Khoz-vu, 1949, SB. 3, s. 61-67

SO: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949

T-chnology

Chast! II, Ochistka stochaykh vod (Sewerage, Part 2: Furification of sewage).

Moskva, Izd. Min-va kom. khoz-va, 1951. 364 p.

9. MONTHIY LIST OF RUSSIAN ACCESSIONS, Library of Congress, Movember 1952. Uncl.

SHIGORIN, C.C.

SHIGORIN, C.G., kandidat tekhnicheskikh nauk; KARPINSKIY, A.A., kandidat tekhnicheskikh nauk, redaktor.

[Use of sewer systems for cleaning towns] Ivpol'zovanie kanalizatsii dlia ochistki gorodov. Moskva, Izd-vo Ministerstva kommunal'nogo khosiaistva EXFSR, 1954. 150 p. (MERA 7:8)

(Severage)

SHIGORIN, G.G.

MOLOKOV, Mikhail Vladimirovich; SHIGORDI, Georgia Gavrilovich; KARAGODIN, V.L., redaktor; NOVOCHADOV, A.G., redaktor; PETROVSKAYA, Ye., tekhnicheskiy redaktor

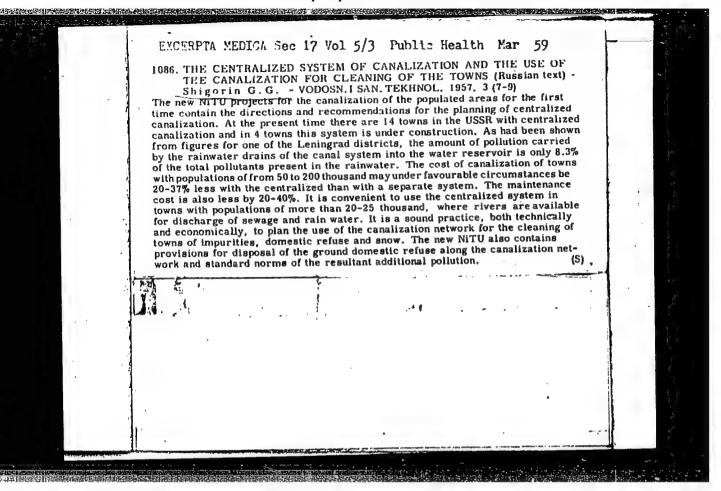
[Storm and general sewers] Dozhdevaia i obshchesplavnaia kanalizatsiia; teoriia i raschet. Moskva, Izd-vo Ministerstva kommunalinogo khoziaistva RSFSR, 1954. 331 p. [Microfilm] (MIRA 6:3) (Sewerage) (Rain and rainfall)

SHIFRIN, Semen Markovich, doktor tekhnicheskikh nauk, professor; SHIGORIN, G.G., kandidat tekhnicheskikh nauk, nauchnyy redaktor; KAPIAN, M.Ya., redaktor izdatel stva; PUL'XINA, Ye.A., tekhnicheskiy redaktor

[Modern methods for mechanical purification of sewage] Sovremennye sposoby mekhanicheskoi ochistki stochnykh vod. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhit., 1956. 179 p. (MLRA 10:4) (Sewage--Purification)

FEDOROV, Nikelay Federevich, dekter tekhnicheskikh nauk, prefesser;
SAPOZHNIKOV, M.M., kandidat tekhnicheskikh nauk, redakter;
SHIGORIN, G.G., kandidat tekhnicheskikh nauk, detsent, retsenzent;
MORGENSHTERN, V.S., kandidat tekhnicheskikh nauk, detsent, retsenzent; KAPLAN, M.Ya., redakter; PUL'KINA, Ye.A., tekhnicheskiy redakter.

[New studies and hydraulic calculations of sewer systems] Nevye issledevaniia i gidravlicheskie raschety kanalizatsiemnykh setei. Leningrad, Ges. ixd-ve lit-ry pe streit. i arhitekture, 1956.
257 p. (Sewer design) (MLRA 9:5)



AGRANONIK, Ye.Z., kand.tekhn.nauk; BELOV, A.N., dotsent; GLADKOV, A.M., inzh.; GLUSKIN, S.A., inzh.; IVANOV, L.V., dotsent, kand.tekhn.nauk; LIPKIN, Ye.V., kand.tekhn.nauk; NIKIFOROV, G.N., dotsent, kand.tekhn.nauk; PESENSON, I.B., inzh.; PREGER, Ye.A., dotsent, kand.tekhn.nauk; PYATOV, Ya.N., inzh.; ROKHCHIN, Ye.Z., inzh.; FEDOROV, N.F., prof., doktor tekhn.nauk; SHVARTS, H.B., inzh.; SHIGORIN, G.G., dotsent, kand.tekhn.nauk; SHIFRIN, S.M., prof., doktor tekhn.nauk; POPRUGIN, I.V., inzh., retsenzent; KATS, K.F., inzh., retsenzent; ROTKNBERG, A.S., red.izd-va; VORONETSKAYA, L.V., tekhn.red.

[Manual of water-supply engineering and sewerage] Spravochnik povodosnabzheniu i kanalizatsii. Pod red. N.F.Fedorova. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. 1959. 410 p. (MIRA 13:3)

1. Moscow. Gosudarstvennyy proyektnyy institut Vodokanalproyekt.
Leningradskoye otdeleniye.
(Water-supply engineering) (Sewerage)

SHIGORIN, Georgiy Gavrilovich; LUKINYKH, A.A., red.; RACHEVSKAYA, M.I., red.izd-ve; SALAZKOV, N.P., tekhn.red.

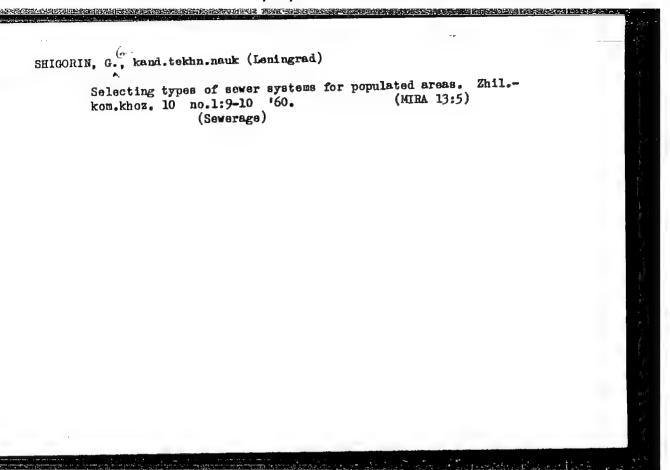
[Combined sewerage system; calculation and design] Obshchesplavnaia sistema kanelizatsii; raschet i proektirovanie. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1960. 207 p. (MIRA 14:3) (Sewerage)

SHIGORIN, CT. CT

AGRANONIK, Ye.Z., kend.tekhn.nauk; BELOV, A.N., dotsent; GLADKOV, A.M., inzh.; GLUSKIN, S.A., inzh.; IVANOV, L.V., dotsent, kand.tekhn.nauk; LIPKIN, Ye.V., kend.tekhn.nauk; NIKIFOROV, G.N., dotsent, kand.tekhn.nauk; PESENSON, I.B., inzh.; PREGER, Ye.A., dotsent, kand.tekhn.nauk; PYATOV, Ya.N., inzh.; ROKHCHIN, Ye.Z., inzh.; FEDOROV, N.F., prof., doktor tekhn.nauk; SHVARTS, R.B., inzh.; SHIGORIN, G.G., dotsent, kand.tekhn.nauk; SHIFRIN, S.M., prof., doktor tekhn.nauk; ROTENBERG, A.S., red.izd-va; VORONETSKAYA, L.V., tekhn.red.

[Water-supply and sewerage manual] Spravochnik po vodosnabzhaniiu i kanalizatsii. Pod red. N.F.Fedorova. Izd.2., ispr. i dop. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 420 p. (MIRA 13:12)

1. Moscow. Vodokanalproyekt. Leningradskoye otdeleniye. (Water-supply engineering) (Sewerage)



FEDOROV, N.F.; SHIFRIN, S.M.; SHIGORIN, G.G.; PESENSON, I.B.; MORGENSHTERN, V.S., kand. tekhn. nauk, nauchnyy red.; KAPLAN, M.Ya., red. izd-va; PUL!KINA, Ye.A., tekhn. red.

[Sewerage systems and structures; planning and design] Kanalizatsionnye seti i sooruzheniia; proektirovanie i raschet. Leningrad, Gos. izd-vo.lit-ry po stroit., arkhit. i stroit. materialam, 1961. 314 p.

(MIRA 14:7)

(Sewerage)

TSVETKOV, A.I.; SHUTOV, Yu.D.; SHIGORIN, G.G., kand. tekhn. nauk, retsenzent; REYZ, M.B., red. izd-va; VORONETSKAYA, L.V., tekhn. red.

[Construction of sewer conduits by shield tunneling; construction practices in Leningrad] Sooruzhenie kanalizatsionnykh kollektorov metodom shchitovoi prokhodki; opyt stroitel'stva v Leningrade. Leningrad, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 97 p. (MIRA 15:2)

(Sewerage) (Tunneling)

公公元·安治·克尔·克尔·克尔·克尔·克尔·克尔·克尔·克尔·克尔·克尔·克尔·克尔·

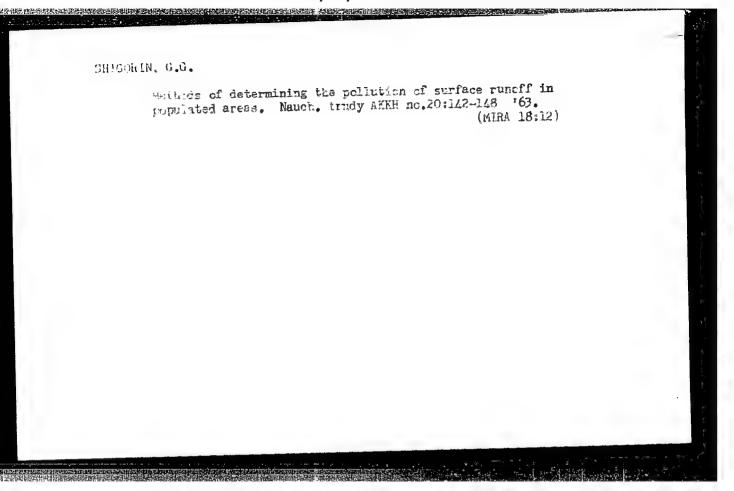
SHIGORIN, G.G.

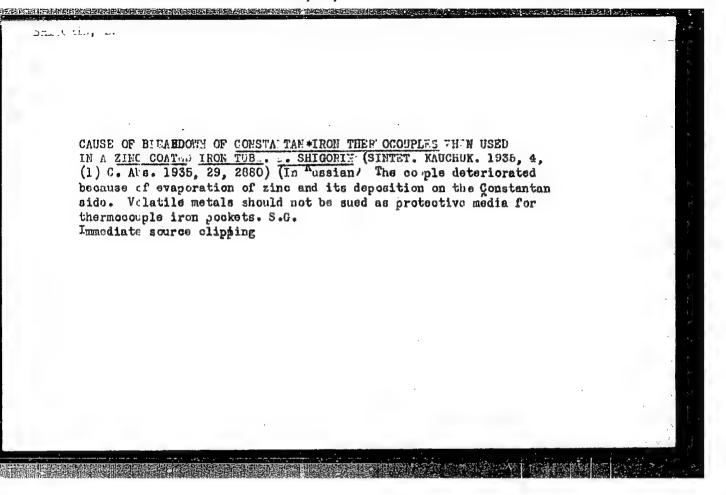
Technical and economic evaluation of completely separate and combined sever systems. Sbor. nauch. rab. AKKH no.61254-266
(MIRA 15:3)

(Sewer design)

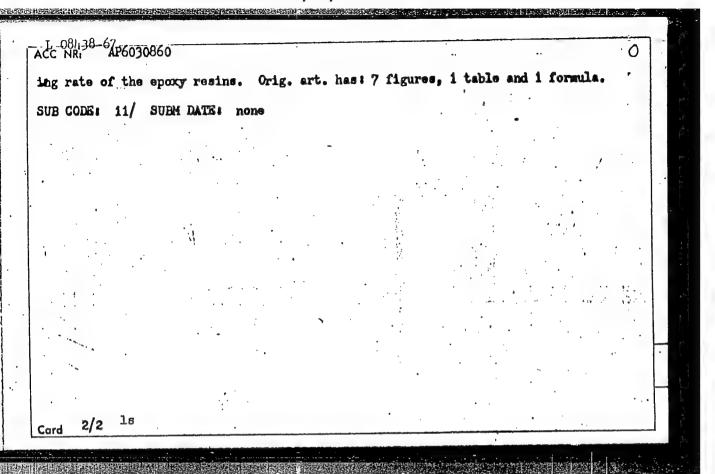
SHIGORIN, G.G., kand.tekhn.nauk

Selecting the type of sewage tanks for large water purification plants. Vod. i san. tekh. no.7:6-8 Jl '55. (MIRA 18:8)





ACC NRI AP6030860 (A,N) SOURCE CODE: UR/0191/66/	000/009/0063/0065
ORG: none TITLE: Lining of pipes with epoxy resins by a centrifugal method	33 · B
SOURCE: Plasticheskiye massy, no. 9, 1966, 63-65	
TOPIC TAGS: pipe, epoxy plastic, protective coating	
ABSTRACT: In the proposed centrifugal method of lining steel pipes, an epoxy composition has been introduced is rotated and heated at the order to speed up the curing of the epoxy resin; the latter, liquefic becomes evenly distributed over the walls of the pipe and sets in the ing thus obtained has a mirrorlike surface which is free of pores are wear resistant. In the lining experiments performed, use was made of lar resins ED-5; ED-6 and E-40, with polyethylene polyamines as curicularly phthalate was introduced to increase the initial flowability. Of rotation of a pipe 50 mm in diameter was found to be 800 rpm, and other diameters (25, 32, 40, 70, 80, 100, 125, 150, 175, 200 mm) were checked experimentally. The optimum temperature (130-150°C) and time min) were determined by studying the effect of the plasticizer and find	e same time in ed by the heat, is state. A lin- id very hard and if the low-molecu- ing agents. Di- The optimum speed the speeds for e calculated and e of curing (20-30
card 1/2 UDC: 678.643°42°5:620.19	7.6166.026



9(6)

9.6000

S/115/60/000/04/018/041 D002/D006

AUTHOR:

Shigorin, V.P.

TITLE:

A Bridge for Comparing Reference and Standard Resistors in the Range of 0.001 to 100,000 Ohms

PERIODICAL:

Izmeritel'naya tekhnika, 1960, Nr 4, pp 33-36 (USSR)

ABSTRACT:

This new instrument developed at VNIIM imeni D.I. Mendeleyeva (VNIIM imeni D.I. Mendeleyev) is a fully balanced bridge comparator (Figure 1) designed for comparisons of the standard and reference resistors. Its advantages are: only one feed source, and independence of the indications on the instability of the e.m.f. of the source. It is placed into a thermostatic bath of transformer oil together with a frame with a perforated ebonite bottom for the resistors to be tested. An automatic temperature re-

Card 1/3

在现实还是这个写真的对象的证明的对象的可能被引起的不管的的。

8/115/60/000/04/018/041 D002/D006

A Bridge for Comparing Reference and Standard Resistors in the Range of 0.001 to 100,000 Ohms

gulator with two electric mixers keeps the oil temperature at 20 - (0.01 0.03) °C. The major resistor bridge elements are made of manganin with a temperature coefficient of not more than 0.0015%. The adjustable arm consists of four modified decade elements of the Waidner-Wolf type /Ref. 1, English/. The bridge has practically no systematic error; the error through inaccuracy of the resistance regulation is not over 0.00001%; the effect of constant t.e.m.f. is excluded; the error through sensitivity is significant only in comparison of resistances with nominal value 0.001 and 100,000 ohm; the temperature error is casual and its range is between 0.00001 and 0.00005% when the load on the compared resistors is not over 0.05 watts. The bridge is recommended for

Jard 2/3

80297 S/115/60/000/04/018/041 D002/D006

A Bridge for Comparing Reference and Standard Resistors in the Range of 0.001 to 100,000 Ohms

use at the institutes of the Komitet standartov, mer i izmeritel'nykh priborov (Committee of Standards, Measures and Measuring Devices), and at the Institut metrologii Kitayskoy Narodnoy Respubliki (Institute of Metrology of the Chinese People's Republic). There are 2 diagrams and 3 references, 2 of which are English, 1 Soviet.

X

Card 3/3

SHIGOWIN, V. P., Cand Tech "ci -- "Merking out and study of new methods and apparatus for the precision of measurment of the resistances." Len, 1960

(Min of Higher and Secondary Specialized Eduction RSFSR. Len Electrical Engineering Inst im V. I. Ul'yanov (Lenin)). (KL, 1-61, 199)

-270-

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001549410019-7

s/058/62/000/003/002/092 A061/A101

Gorbatsevich, S. V., Shigorin, V. P.

Method and apparatus for precision measurements of d-c resistances

Referativnyy zhurnal, Fizika, no. 3, 1962, 11, abstract 3A121 ("Tr. in-toy Kom-ta standartoy, mer i izmerit. priborov pri Sov. Min. AUTHORS: TITLE:

PERIODICAL:

SGSR". 1961, no. 52 (112). 27-36)

Non-integral rated resistances, i.e., different from 10k(k = integer), TEXT:

Non-integral rated resistances, i.e., different from 10 (K = 100)

could hitherto be measured with far less accuracy than integral rated ones. resistances can be measured with a bridge comparator, either single or double, lowers the errors of measurement of such resistances to 10 resistances can be measured with a pringe comparator, either single or double, depending on the magnitude of the resistance to be measured, and with a number depending on the magnitude of the resistance to be measured. depending on the magnitude of the resistance to be measured, and with a number of standard series-connected resistors, permitting any ratios to be obtained in the vicinity of that of the pasistance compared the vicinity of that of the pasistance compared of standard series-connected resistors, permitting any ratios to be obtained in the vicinity of that of the resistors, permitting any ratios to be obtained in the vicinity of that of the resistors, permitting any ratios to be obtained in any ratios to be obtained in the vicinity of that of the resistances resistor, permitting the ratio of two permitting the ratio of two permitting any ratios to be obtained in any ratios to be obtained in the vicinity of that of the resistances resistor, permitting the ratio of two permitting the ratio of two permitting any ratios are also a standard resistor box. resistors, measured and standard, to be read with high accuracy.

Card 1/2

Method and apparatus ...

S/058/62/000/003/002/092 A061/A101

diagrams and formulae for calculating the corrections are presented, as well as experimental data confirming the high accuracy of measurements.

K. Shirokov

[Abstracter's note: Complete translation]

Card 2/2

SHIGORIN, V.P.; VOYCHINSKAYA, I.V.

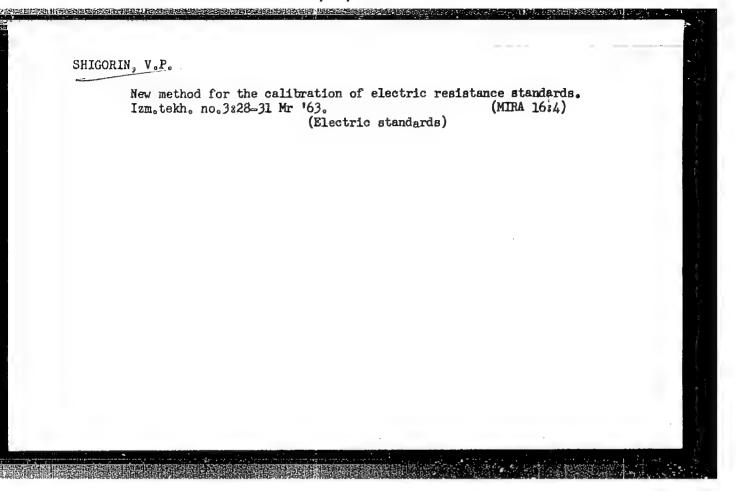
Using the MKS-1 comparator for precision temperature measurements. Izm.tekh. no.3:27-29 Mr '62. (MIRA 15:2) (Thermometry)

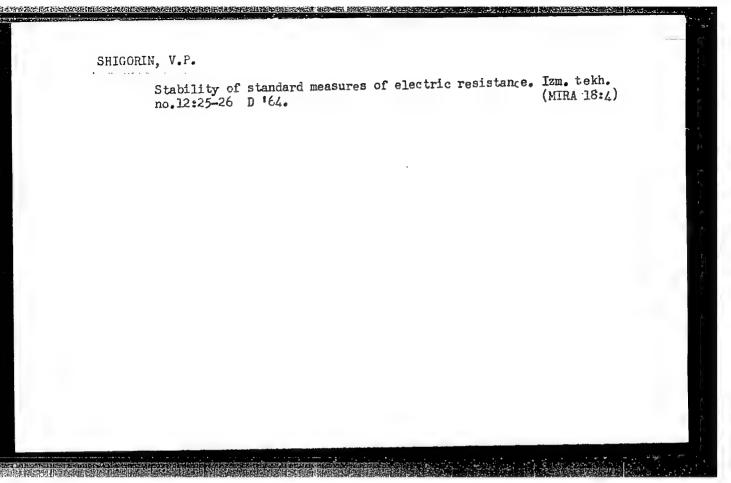
GORBATSEVICE, S.V.; LONARMIKOVA, VETERADVA, I.T., BHILDRIM, V.T.

Changeover in the U.S. Con. 15 Low els. Com. resistant: Standards.

Trudy inst. Kom. stand. mer. i izm. prib. no.6735-11 '62. (MIRA 17:11)

 Vsesoyuznyy nauchno-isaledovateliskiy institut metrologii imeni Mendeleyava.





SHIGORIN, V.P.

Network and methods for evaluating the accuracy of calibration of standard resistances. Trudy inst. Kom. stand., mer. i izm. prib.

(MIRA 18:10)

1. $V_{sesoyuznyy}$ nauchno-issledovatel'skiy institut metrologii im. $h_{\bullet}I_{\bullet}M$ endeleyeva.

WRITE BELOW THIS LINE

ACCESSION NR: AT4017004

\$/3057/63/000/000/0148/0153

AUTHOR: Tikhomirov, V. B.; Shigorina, I. I.; Sidyakin, P. V.

TITLE: Gas-flame atomization of plastics onto large metal and concrete surfaces

SOURCE: Zashchitny*ye pokry*tiya v atomnoy tekhnike (Shielding in nuclear engineering); sbornik statey. Moscow, Gosatomizdat, 1963, 148-153

TOPIC TAGS: atomization, plastic deposition, atomic reactor shielding, shielding, nuclear reactor, atomic pile shielding, atomic reactor, nuclear shielding

ABSTRACT: Gas-flame atomization is the best method for obtaining shieldings of thermoplastic materials. The present investigation worked out methods for gas-flame atomization on construction materials. (See Fig. 1 in the Enclosure.) It was found that three 15-20 mm layers of M5-25 lacquer should be applied to metal or concrete surfaces, which are first cleaned of rust and dirt. Defects in the concrete should first be filled with a cement-polyethylene compound (water:cement: polyethylene 1:3:1), after which the material is moistened periodically for 10 days. Each layer of plastic is dried for 1-2 hours at 18-20C. The model UPN-4 VNIIAvtogen sprayer can be used for gas-flame atomization. For polyethylene coating on metal, the GLN-4 burner moves at a speed of 1-1.5 m/min. The con-Card 1/3

ACCESSION NR: AT4017004

и. сп

ij.,·

na. Cu

sumption of compressed air (2 atm) is 0.2 cu. m/min. and that of acetylene is 0.5 cu m/hr. The unit price for 1 sq. m of metal surface coating is 7-8 rubles. The problem of obtaining a shielding of the lowest possible porosity can be resolved by addition of graphite to the polyethylene. Orig. art. has: 3 figures.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 20Feb64

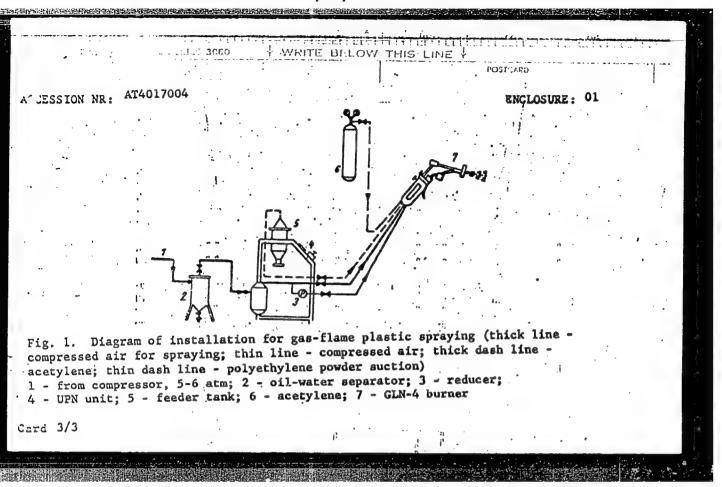
ENCL: 01

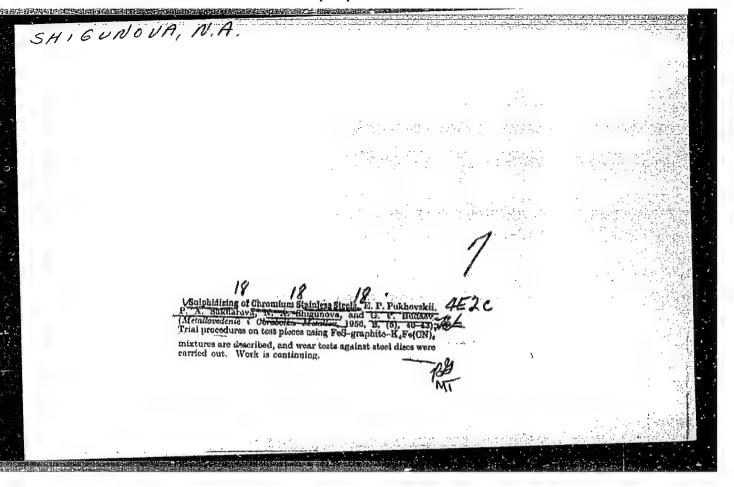
SUB CODE: MT, NP

NO REF SOV: 002

OTHER: 000

Card 2/3





SHIK, A. SHIK, A. Amateur photographers of the Estonian Planning Institute. Sov. foto 17 no.12:21 D 57. (MIRA 11:1)

(Estonia -- Photography)

CIA-RDP86-00513R001549410019-7" APPROVED FOR RELEASE: 08/25/2000

TARASENKO, M.P.; SHIK, B.I.; DOEROVOL'SKII, P.M.; SEMENOV, A.G., red.

[Hints to fruit and grape growers] Sovety sadovodam i vinogradariam.

[Kiev, Gos.izd-vo sel'khoz. lit-ry USSR, 1957. 234 p. (MIRA 10:12)

(Fruit culture) (Viticulture)

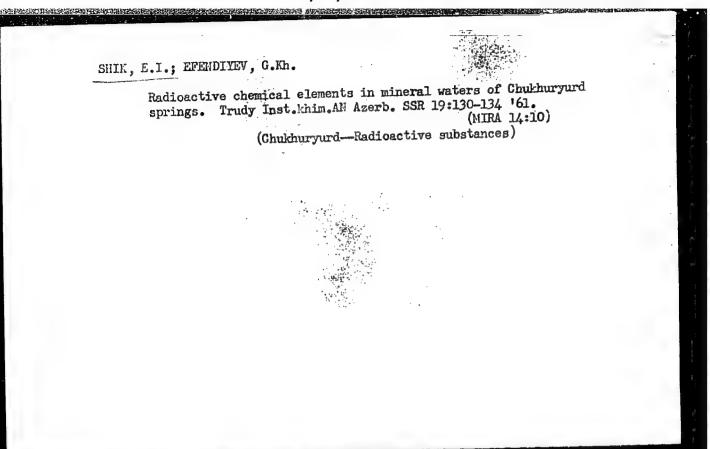
TARASENKO, Moisey Petrovich; SHIK, Boris Il'ich; DOBROVOL'SKTY, Pavel
Mikhaylovich; MILOKOSTA, N.Ya., red.; NENCHENKO, I.Ye., tekhn.
red.

[Advice to fruit and grape growers] Sovety sadovodam i vinogradariam. Kiev, Gos.izd-vo sel'khoz.lit-ry USSR, 1960. 249 p.
[Izd.3. (Morticulture—Handbooks, manuals, etc.)

(Viticulture—Handbooks, manuals, etc.)

TARASENKO, M.P.; SHIK, B.I.; DOBROVOL'SKIY, P.M.; MILOKOSTA, N.Ya., red.; KALASHNIKOVA, O.G., tekim. red.

[Advice on fruit culture and viticulture] Sovety po sadovodstvu i vinogradarstvu. Izd.4., dop. Kiev, Gossel'khozizdat USSR, 1962. 276 p. (MIRA 15:6)



EFENDIYEV, G.Kh.; SHIK, E.I.

Find of gallium in oil field waters. Geokhimiia no.3:371-372
(MIRA 18:7)

1. Institut khimii AN AzerbSSR, Baku.

Mathematical Reviews Vol. 15 No. 1 Jan. 1954 Algebra Sik, F. Sur les décompositions créatrices sur les quasigroupes. Publ. Fac. Sci. Univ. Masaryk 1951, 169-186 (1951). (Russian summary)

The author develops a theory of the congruence relations, called here creative decompositions, on a (finite) quasigroup G, in terms of the group G_r of permutations on G generated by its multiplications. The main tool is the theorem that adecomposition is creative (an equivalence relation on G is at congruence) if and only if it partitions G into the transitivity (3 systems of an invariant subgroup of G_r . Some attention is paid to the case when the corresponding homomorph of G is a loop. Terminology and concepts due to Boruvka [Math. Ann. 118, 41-64 (1941); Rozpravy H. Třídy České Akad. 53, no. 23 (1943); Acad. Tchèque Sci. Bull. Int. Cl. Sci. Blath. Nat. 44, 330-343 (1944); these Rev. 3, 200; 8, 449] day a large part in the investigation, which leads to a Jordan-Hölder theorem for quasigroups. Specialisation of G to be a loop yields results contained in those of Albert Trans. Amer. Math. Soc. 54, 507-519 (1943); 55, 401-419 (1944); these Rev. 5, 229; 6, 42].

Since it is not stated explicitly that only finite quasigroups are considered, and some remarks could be read as implying that the work is valid for quasigroups generally, it is desirable to point out that the assumption of finiteness is made tacitly (p. 173) in showing that every homomorph of a quasigroup is a quasigroup [cf. Bates and Kiokemeister, Bull. Amer. Math. Soc. 54, 1180–1185 (1948); these Rev. 10, 353].

I. M. II. Etherington (Edinburgh).

SHAKHIAKHT NEXIT, I.N., SHIK, G.

Certain regularities of the chlorination of athylene in a fluid bed of aluminum Y-oxide catalyst. Azerb. khim. zhur. no.53 (MIRA 18:3)

SHAKHTAKHTINSKIY, T.N.; SHIK, G.L.

Development of the method of chromatographic analysis of the products of ethylene chlorination. Azerb.khim.zhur. no.6: 65-68 '63. (MIRA 17:3)

SHIK, G. Z.

Cand. Veterinary Sci. Mbr., Sci. Ind. Lab. Combating Diseases Young Agricultural Animals, Min. Sovkhozes, RSFOR, -c1942-. "Methods of Laboratory Research of Material, to Determine the Presence of Mange Ticks," Veterinariya, No. 7, 1947; "Sulfamide Preparations and Their Use in Calf Diseases," ibid., No. 10, 1948.

"APPROVED FOR RELEASE: 08/25/2000

JEE 7. 1.

CIA-RDP86-00513R001549410019-7

F: 17721

USSR/Medicine - Ticks

Jul 1947

Medicine - Mange

"Methods of Laboratory Research of Material, to Determine the Presence of Mange Ticks," G. Z. Shik, 2 pp

"Veterinariya" No 7

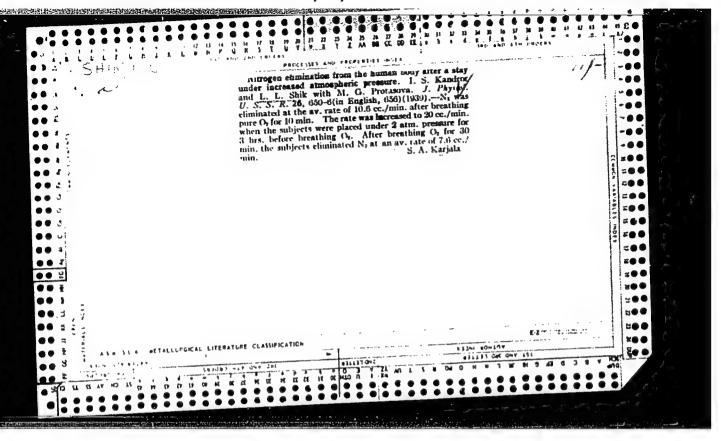
Experiments conducted at Scientific and Production Laboratory of the Ministry of Animal Husbandry, RSFSR. Discusses various methods of transmitting goods, which would guarantee their not carrying mange ticks from one locality to another.

17121

anilamide oct 48 anilamide vivatives in Calf Diseases, Combatting Sowkhozes RSFSR, Sowkhoze

SHIK, I.M., redaktor; YERSHOV, P.R., vedushchiy redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor.

[Manual of time norms for automobile repairing] Sbornik norm vremeni na remont avtomobilei. Izd.3-e, ispr.i dop. Moskva, Gos. nauchno-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry, 1957. 466 p. (Automobiles--Maintenance and repair) (Time study)



SHIK, L. L.

"Gas Exchange in Cases of Oxygen Deficiency," Sub. 18 Sep 47, Combined Scientific Council of Institutes, Acad Med Sci USSR.

Dissertations presented for degrees in science and engineering in Moscow in 1947. SO: Sum.No.457, 18 Apr 55

SHIK, L.I., (Moskva)

I.M.Sechenev and physiology of working movements in man. Zhur.

vys.nerv.deiat. 6 no.1:175-181 Ja-F' 56. (MLHA 9:7)

(PHYSIOLOGY, history,

contribution of I.M.Sechenev (Rns))

(SECHENOV, IVAN MIKHAILOVICH, 1829-1905)

MOROZOVA, I.A.; SHIK, L.L.

Action potentials of the respiratory muscles in patients with respiratory deficiency [with summary in English]. Biul.eksp.biol. i med. 43 no.5:61-65 My *57. (MIRA 10:10)

Iz fiziologicheskoy laboratorii (zav. - prof. L.L.Shik) TSentral'nogo instituta ekspertizy trudosposobnosti i organizatsii truda
invalidov (dir. - prof. O.I.Sokol'nikov), Moskva. Predstavlena
deystvitel'nym chlenom AMN SSSR V.N.Chernigovskim.
(RESPIRATION, physiol.

action ptoentials of resp.musc. in patients with resp. defic. (Rus))
(LUNG DISEASES, physiol. same)

VISHEEVSKIY, A.A.; SHIK, I. I. KHODOROV, B.I.

Cybernetics in surgery. Eksper. Phir. 4 no.1:6-11 Ja-F '58.

(SURGERY

cybernetics in surg. (Rus))

(CYDERNETICS

same)

· 在在1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年间,1000年

BULYGIN, I.A., red.; ZAKUSOV, V.V., red.; KAPLANSKIY, S.Ya., red.; MUZY-KANTOV, V.A., red.; TURPAYEV, T.M., red.; CHERKASOVA, L.S., red.; CHERNIGOVSKIY, V.N., red.; SHADURSKIY, K.S., red.; SHIDLOVSKIY, V.A., red.; SHIK, L.L., red.; MUZYKANTOV, V.A., red.; BELEN'KAYA, I.Ye., tekhn. red.

[Summaries of reports] Tezisy dokladov. Moskva, Izd-vo Akad. nauk SSSR. Vol.1. [Abstracts of reports in section meetings; physiology] Tezisy dokladov na sektsionnykh zasedaniiakh; fiziologiia. 1959. 432 p. (MIRA 14:11)

1. Vsesoyuznoye obshchestvo fiziologov, biokhimikov i farmakologov. 9. s"yezd. 2. Kafedra fiziologii Moskovskogo meditsinskogo instituta im. I.M.Sechenova (for Shidlovskiy). (PHYSIOLOGICAL SOCIETIES)

SHIK, L.L., prof.

"Experimental reproduction of human diseases" by D.A.Sarkisov,
P.I.Remezov. Reviewed by D.L.Shik. Vest. AMN SSSR 15 no.9:90
(MIRA 13:11)

160.

(MEDICINE, EXPERIMENTAL) (SARKISOV, D.A.) (REMEZOV, P.I.)

PARIN, V.V., prof., otv. red.; MARSHAK, M.Ye., prof., red.;
MUZYKANTOV, V.A., kand. biolog. nauk, red.; SERGIYEVSKIY, M.V.,
prof., red.; SHIK, L.L., prof., red.; MUZYKANTOV, V.A., red.

[New developments in the physiology and pathology of respiration; data] Novoe v fiziologii i patologii dykhaniia; materialy. Pod red. V.V.Parina. Moskva, 1961. 279 p. (MIRA 15:3)

1. Konferentsiya po fiziologii i patologii dykhaniya. 2. Deystvitel'myy chlen Akademii meditsinskikh nauk SSSR (for Parin).
3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Marshak, Sergiyevskiy). 4. Institut khirurgii im. A.V.Vishnevskogo Akademii meditsinskikh nauk SSSR, Moskva (for Shik).

(RESPIRATION)

FOGEL'SON, L.I., prof.; SHIK, L.L., prof.; FREYDIN, L.M., dots., nauchnyy red.; BEINAK, A.S., tekhn. red.

[Diseases of the heart and vessels] Bolezni serdtsa i sosudov.

Moskva, Izdatel'skoe biuro tresta "Meduchposobie." Book 1. Atlas.

1961. 283 p. (MIRA 15:3)

(CARDIOVASCULAR SYSTEM—DISEASES)

SHIK, L.L.

Basic requirements of apparatus used in the study of external respiration. Med. prom. 15 no. 4:34-39 Ap '61. (MIRA 14:4)

1. Institut khirurgii imeni A.V. Vishnevskogo. (RESPIRATION) (PHYSIOLOGICAL APPARATUS)

SHIK, L.L.: VINITSKAYA, R.S.; VOLYNSKIY, Yu.D.; KHARNAS, S.Sh.

Significance of changes in oxygen consumption in artificial blood circulation under experimental conditions. Vest. AMN SSSR 16 no.8: 24-27 '61. (MIMA 14:12)

1. Institut khirurgii imeni Vishnevskogo AMN SSSR. (BLOOD_CIRCULATION, ARTIFICIAL)

SHIK, L.L.

"Some typical patterns of control of the respiration and blood circulation in man."

Report submitted, but not presented at the 22nd International Congress of Physiological Sciences.

Leiden, the Netherlands 10-17 Sep 1962

VISHNEVSKIY, A.A., prof.; GALANKIN, N.K., doktor med. nauk; ARAPCV, A.D.;
AKHMETOV, A.M.; VINITSKAYA, R.S., kand. biol. nauk; VOLYNSKIY,
Yu.D.; DARBINYAN, T.M., kand. med. nauk; DONETSKIY, D.A., kand.
med. nauk; KLEMENCVA, Ye.S.; KUDRYAVTSEVA, A.M., kand. med. nauk;
KRYMSKIY, L.D., kand. med. nauk; LOKSHINA, K.A.; MAZAYEV, P.N., prof.; PANOVA,
Yu.M.; PROMTOVA, T.N., kand. biol. nauk; PYL'TSOV, I.M.; SERGEYEVA,
K.A., kand. med. nauk; KHARNAS, S.Sh., kand. med. nauk; KHRUSHCHEVA,
kand. med. nauk; TSUKERMAN, B.M., kand. biol. nauk; SHIK, L.L.,
prof.; GOL'DGAMMER, K.K., red.; BALDINA, N.F., tekhn. red.

[Congenital defects of the heart and large vessels]Vrozhdennye poroki serdtsa i krupnykh sosudov; rukovodstvo dlia vrachei. Moskva, Medgiz, 1962. 577 p. (MIRA 16:1)

l. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Vishnevskiy).

(CARDIOVASCULAR SYSTEM--DISEASES)

VISHNEVSKIY, A.A.; SHIK, L.L.

Problem of compensation in surgery. Vest.AMN SSSR 17 no.5:43-47 (62. (SURGERY) (ADAPTATION (PHYSIOLOGY)

SHIK, L.L.

Regulation of the minute volume of the blood according to research data on congenital heart defects. Trudy Inst. klin. i eksper. kard. AN Gruz. SSR 8:381-384 '63. (MIRA 17:7)

1. Iz laboratorii normal'noy i patologicheskoy fiziologii Instituta khirurgii AMN SSSR, Moskva.

SERGEYEVA, K.A.; SHIK, L.L.

Significance of discharges from the right and left ventricle in the formation of IJ ballistocardiographic waves. Biul. eksp. biol. i med. 57 no.4:8-11 Ap '64. (MIRA 18:3)

1. Fiziologicheskaya laboratoriya (zav. - prof. L.L. Shik) Instituta khirurgii imeni A.V. Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR, Moskva. Submitted March 8, 1963.